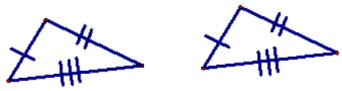
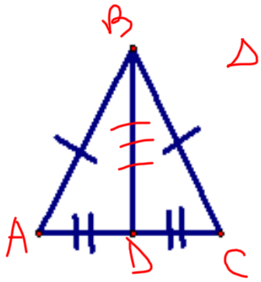
5-2

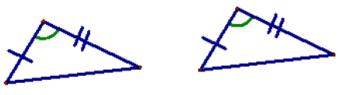
Postulate 12 SSS (Side-Side-Side) Postulate—If 3 sides of one △ are ≅ to 3 sides of a 2nd △, then the 2 △s are ≅.



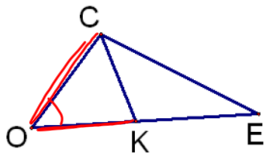


△ABD ≅ △CBD
SSS

Postulate 13 SAS (Side-Angle-Side) Postulate—If 2 sides and the included angle of 1 △ are ≅ to 2 sides and the included angle of a 2nd △, then the 2 △s are ≅



Name the included angle between the given sides.

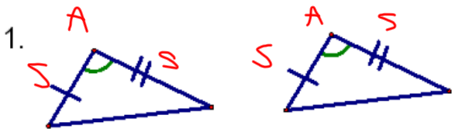


$\overline{CO}$ · $\overline{KO}$ ∠O

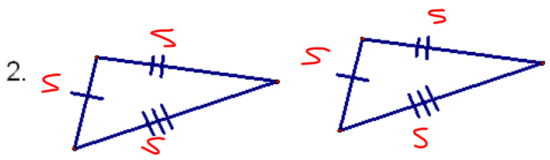
$\overline{CK}$ · $\overline{OK}$ ∠CKO

$\overline{CE}$ $\overline{EK}$ ∠E

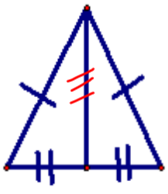
Are the following triangles congruent? If so, then why?

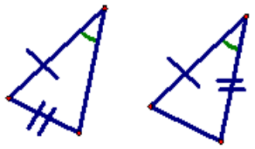
1. 

yes, SAS

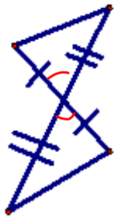
2. 

yes, SSS

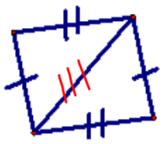
3. yes SSS 

4. No don't match 

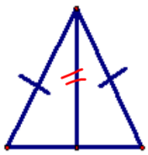
5. yes
SAS



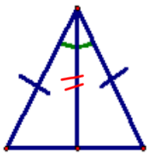
6. yes
SSS



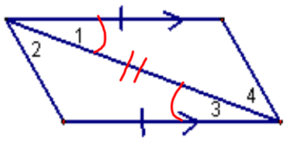
7. No



8. yes
SAS



9.



yes
SAS